CLAIMS

1. A high frequency radio transceiver able to communicate on at least a first high frequency and a second high frequency, wherein said first high frequency is dedicated to a first telecommunication net and said second high frequency is dedicated to a second telecommunication net.

2. A high frequency radio transceiver of claim 1 being able to scan pre-selected channels of a plurality of nets and having a unique self address in each net.

3. A high frequency radio transceiver of claim 2 wherein said plurality of nets includes between 2 and 20 nets.

4. A high frequency radio transceiver of claim 1 wherein said high frequencies are within a frequency range of from about 2 MHz to about 30 MHz.

5. A high frequency radio transceiver of claim 1 comprising a multi-net task manager for coordinating scanning and sounding on each of said nets.

6. A high frequency radio transceiver of claim 5 wherein the multi-net task manager assesses quality of links using a bidirectional function applied to all available channels of all nets.

7. A method of scanning a plurality of nets using the high frequency radio transceiver of claim 6 comprising the steps of:
putting said high frequency radio transceiver into multi-net scanning mode;
scanning channels of first net;
scanning channels of second net;
scanning channels of other nets that said transceiver is compatible with in turn.

8. A method of scanning a plurality of nets using the high frequency radio transceiver of claim 7 wherein only nets assigned to multi-net operation are scanned.

9. A method of scanning a plurality of nets using the high frequency radio transceiver of claim 8 wherein said transceiver listens to an appropriate channel and hears a call signal having an address, and said call signal will only be answered when said address matches a self address of said transceiver.

10. A method of scanning a plurality of nets using the high frequency radio transceiver of claim 7 wherein scanning operation on each net is performed in accordance with directives of MIL - STD188-141B standard.

11. An arrangement of high frequency transceivers comprising a plurality of individual nets, each of said nets containing a plurality of high frequency transceivers enabled to communicate at a plurality of pre-selected high frequency channels dedicated to that net, wherein at least one of said transceivers is able to communicate with transceivers on different nets.

12. The arrangement of Claim 11 including a bidirectional feature for assessing quality of links between said transceivers on said plurality of dedicated pre-selected high frequency channels on said different nets.